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# Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

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FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY

In the Matter of

Revision of the Commission's Rules

To Ensure Compatibility with

Enhanced 911 Emergency Calling Systems

CC Docket No. 94-102

Description:

ORIGINAL

UNITED STATES CELLULAR CORPORATION QUARTERLY E911 IMPLEMENTATION REPORT

Thomas Van Wazer, Esq. Jennifer Tatel, Esq. Sidley Austin Brown & Wood LLP 1501 K Street, N.W. Washington, D.C. 20005

July 25, 2003

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# UNITED STATES CELLULAR CORPORATION QUARTERLY E911 IMPLEMENTATION REPORT

United States Cellular Corporation ("USCC"), by its undersigned attorneys, hereby submits its fourth quarterly E911 implementation report pursuant to the Commission's order staying certain E911 phase II deadlines for many non-nationwide wireless carriers. As required by the Commission's recent public notice, USCC has submitted its E911 information in the spreadsheet designed by the Wireless Telecommunications Bureau to make the required E911 reports more uniform and informative.<sup>1</sup>

#### I. Introduction

USCC is a so-called Tier II carrier under the *Order to Stay* issued by the Commission last year.<sup>2</sup> As a wireless carrier with systems in many rural markets, USCC faces particular challenges in upgrading its technology and interacting with a wide variety of PSAPs

<sup>&</sup>lt;sup>1</sup> See Public Notice, "Wireless Telecommunications Bureau Standardizes Carrier Report on Wireless E911 Implementation," DA 03-1292, release June 6, 2003.

<sup>&</sup>lt;sup>2</sup> See Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems, Phase II Compliance Deadlines for Non-Nationwide CMRS Carriers, Order to Stay, 17 FCC Rcd 14841 (2002) ("Order to Stay").

across its service area. To meet these challenges, USCC continues to increase both the financial and personnel resources devoted to the deployment of E911 services throughout its service area. This continued commitment produced several new E911 deployment milestones in the most recent quarter, including reducing the number of backlogged phase I requests capable of deployment to three, increasing USCC's overall phase I roll-out percentage to 92 and increasing its effective phase I roll-out percentage — *i.e.* in markets where there are no PSAP, LEC or other obstacles to deployment — to 99 percent.

# II. Status of Phase I Requests

USCC and its E911 vendor, TeleCommunication Systems, Inc. ("TCS"), actively work with all requesting PSAPs to deploy phase I E911 service throughout USCC's service area. In some cases, USCC has proceeded with deployment despite the fact that a particular PSAP's request does not amount to a valid request for service under the Commission's rules, including numerous markets where the PSAP made only an oral request.

To date, USCC has received 651 requests for phase I service and successfully deployed phase I service to 599 PSAPs. This represents full phase I deployment to approximately 92 percent of the PSAPs that have requested the service. The spreadsheet attached hereto as Appendix B identifies those PSAPs requesting phase I service and the markets where USCC has deployed phase I.

USCC currently has 52 pending phase I requests. Of these pending phase I requests, 26 have been pending less than six months. USCC, like other wireless carriers, has encountered various delays in the phase I roll-out due to circumstances beyond its control including ongoing LEC-related delays and ALI database and connectivity problems. Of the

remaining 26 phase I requests pending for more than 6 months, 23 have been delayed by factors outside of USCC's control. Nine are in markets where the PSAP has failed to order the equipment necessary to utilize phase I data, six are in markets where the PSAPs have delayed the review and approval of the maps or traffic plans that must be in place before phase I deployment can proceed and eight more are in markets where phase I deployment has progressed, often to drive testing, only to identify a connectivity problem between the LEC and the PSAP.

This means that of the phase I requests that could be deployed by USCC, all but 3 (99 percent) were actually been deployed.<sup>4</sup> USCC and TCS will continue their efforts to overcome these obstacles and work toward full phase I deployment for all requesting jurisdictions.

# II. Status of Phase II Requests

USCC has continued the deployment of phase II E911 service in compliance with the Commission's *Order to Stay*. To date, USCC has successfully deployed phase II E911 service to 63 PSAPs in its CDMA service area. USCC currently has 153 outstanding PSAP requests for phase II service, Of these, 22 have been pending less than six months. The attached spreadsheet identifies those PSAPs requesting phase II service and those markets where USCC has deployed it.

<sup>&</sup>lt;sup>3</sup> Although these requests are technically invalid, USCC will remain in contact with these PSAPs and proceed to deployment as soon as the necessary equipment has been ordered.

<sup>&</sup>lt;sup>4</sup> The three outstanding phase I requests were discovered by USCC as it prepared the attached spreadsheet for E911. In the course of matching its PSAP list with the PSAP registry, USCC identified three new phase I requests.

USCC has 68 phase II requests pending more than six months. Of these 68 outstanding phase II requests, 45 (66 percent) are in markets where USCC is prepared to deploy phase II as soon as the PSAPs are ready to receive the phase II information. In many of these markets, USCC and its vendors have completed all the necessary steps toward phase II deployment and are waiting for the PSAPs to upgrade their systems.

Of the 23 remaining phase II requests pending for more than six months, 19 are in USCC's TDMA markets. USCC is currently in the second year of a three-year conversion of its TDMA markets to 1XRTT CDMA technology. A significant benefit from this conversion, which involves a complicated, multiple step process to clear sufficient spectrum in order to overlay a CDMA system in each market, is that a handset-based phase II solution will be available in these markets. The overbuild process continues to be well ahead of the schedule originally presented to the Commission.

Six of the 19 TDMA phase II requests are in various Texas markets where the CDMA overbuild was completed in early July 2003. USCC is in the process of deploying phase II in these markets and expects to roll it out no later than the end of August. Four of the 19 TDMA phase II requests are in Missouri markets scheduled for the CDMA overbuild in August

As a carrier serving a number of RSAs, USCC consistently selected the digital air interface used by carriers serving nearby major metropolitan areas in order to maximize roaming capabilities. As a result, USCC currently has a mixed digital air interface of both CDMA and TDMA systems in its network. In order to keep its service competitive over the long term, USCC announced in late 2001 that it would convert its TDMA markets to CDMA 1XRTT technology over a three year period. *See* United States Cellular Corporation's Supplement to Petition for Waiver of Sections 20.18(e) and (g) of the Commission's Rules, CC Docket 94-102 (filed November 30, 2001) ("USCC Supplement").

<sup>&</sup>lt;sup>6</sup> USCC completed the CDMA overbuild between six months to one full year ahead of schedule in its Wisconsin and northern Illinois markets, as well as several markets in Iowa. In addition, USCC has accelerated the CDMA overbuild in its northeastern markets by one year and stepped up the scheduled overbuild between three and five months in its southwestern markets.

2003, seven are in Vermont which is scheduled for a CDMA overbuild in October 2003 and two are in markets scheduled for a CDMA overbuild in the third quarter of 2004. USCC has notified the requesting PSAPs in these markets of its planned CDMA conversion timeline and has agreed to provide updates on its progress as necessary.

Although this schedule exceeds the six month deployment time frame provided in the Commission's rules, USCC submits that its ambitious, time-consuming and costly network overbuild provides the fastest path to full phase II compliance in USCC's rural TDMA markets. As noted in recent filings by other Tier II and Tier III carriers in smaller, rural TDMA markets, there are significant limitations on the accuracy of network solutions absent the time-consuming and expensive process of constructing location-only sites and/or securing necessary landlord and zoning approvals to install so-called AOA antennas.<sup>7</sup>

In its CDMA jurisdictions where phase II requests have been received, USCC has installed the necessary software loads on its switches to provide phase II service and upgraded all the trunking between these switches and the Mobile Positioning Center of its E911 vendor, TCS. USCC and TCS also have successfully integrated the CDMA switches serving these markets with the TCS equipment and the phase II software. USCC is in the final stages of testing a new a permanent SS7 connection between its network and TCS – a connection that will significantly reduce the time needed to deploy phase II in response to future PSAP requests. USCC is continually updating the Base Station Almanac (BSA) used to improve and verify the accuracy of location information provided to PSAPs. The BSA continues to be populated with detailed

<sup>&</sup>lt;sup>7</sup> See, e.g., Tier III Coalition Petition for Forbearance, WT Docket No. 02-377, at 12 (affirming the inability of Tier III carriers to find a network-based solution without the need for additional location-only cell sites); *Ex Parte* Notice of Rural Cellular Corporation, December 19, 2002 (describing the difficulties in installing and utilizing AOA antennas at its cell sites).

logistical information for all the cell sites serving USCC's CDMA markets with phase II requests.

USCC has contracted with Marconi Corporation to do the necessary calibration, accuracy and drive testing to ensure that USCC's phase II service meets the Commission's accuracy requirements. To date, Marconi has conducted testing on USCC's CDMA switches that are serving PSAPs with live phase II deployments. These tests have been conducted using CDMA location-capable phones currently available to USCC's customers. Marconi's accuracy test results confirm that USCC is meeting the FCC's handset requirement that 67 percent of the calls are accurate to within 50 meters and 95 percent of the calls are accurate to within 150 meters.

### III. Status of Handset Deployment

USCC is in compliance with the applicable handset deployment benchmarks.

USCC began selling GPS-enabled handsets by March 1, 2003 and 25 percent of USCC's new handset activations by the end of May 2003 were E-911 capable phones. In fact, USCC's recent sales even exceeded the FCC's penetration benchmarks. Nearly 53 percent of USCC's activations in June 2003 were GPS-enabled phones – the penetration level required by the Commission by the end of November 2003.8

Currently, USCC has eight GPS-enabled handsets available for sale in its CDMA markets: the Motorola v120e, Audiovox CDM8500, Audiovox 9500, SonyEricsson T206, Kyocera 7135, Nokia 3585i, Nokia 3586i and the Kyocera 3225. One additional GPS-enabled phone – the LG VX4400 – has been approved for use on USCC's network and will be available

<sup>&</sup>lt;sup>8</sup> See Order to Stay ¶ 27.

to dealers and customers in late July, 2003. An additional five GPS-enabled phones are in the testing process: Audiovox 8400, Audiovox 8600, Motorola T73I, Kyocera Kx414e and the Kyocera Slider. If no issues arise during testing, it is anticipated that these phones will be commercially available for USCC's dealers and customers during the months of August and September 2003.

USCC anticipates that handset sales will increase, both in raw numbers and as a percentage of USCC's total handset sales because as of July 1, 2003, USCC is only offering GPS-enabled phones for sale in its CDMA markets. USCC will continue to track its sales of GPS-enabled phones in order to ensure compliance with the penetration benchmarks in the Commission's *Order to Stay*.

#### IV. Conclusion

As demonstrated above, USCC has continued making significant progress in deploying E911 phase I and phase II service throughout its service area. The commitment of significant financial and personnel resources has enabled USCC to move closer to its goal of meeting or exceeding the Commission's implementation deadlines for E911 deployment.

Respectfully submitted,

UNITED STATES CELLULAR

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Its Attorneys

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#### AFFIDAVIT OF JAMES JENKINS

I, James Jenkins, hereby declare as follows:

1.

I am Vice President, External Affairs, for United States Cellular Corporation ("USCC"). In this capacity, I am familiar with USCC's E911 deployment efforts.

I have reviewed the foregoing USCC Quarterly E911 Implementation Report and believe that the facts contained therein are true and accurate.

I declare under penalty of perjury that the foregoing is true and correct, to the best of my knowledge and belief.

Dated this B day of July, 2003.

## **CERTIFICATE OF SERVICE**

I, Tami Smith, do hereby certify that on this 25<sup>th</sup> day of July 2003, copies of the foregoing "United States Cellular Corporation Quarterly E911 Implementation Report" were served by U.S. first-class mail, postage prepaid, to the following:

David Solomon, Chief Enforcement Bureau Federal Communications Commission 445 12<sup>th</sup> Street, S.W., Room 7-C485 Washington, D.C. 20554

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14010	8/15/2000	8/15/2000	Verbal Request	None	3/31/2003		9/25/1997	9/25/1997	3/31/2003	9/25/1997	9/25/1997	None	11/24/2001	10/11/2000	None	?None	8/30/2000	9/25/1997	4/7/2000	2/27/2002	Verbal Request	None	3/22/2001	11/1/2000	2/25/2002	7/18/2000	None	None	3/26/2003	1/24/2001	Verbal Request	Verbal Request	4/23/2001	1/27/2000	4/23/2001
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2265 Hoffman Estates Police DepartrillL	Hodgkins	Hinsdale Police		_	Hillside				Highland Park	Hickory Hills		Harwood Heights Police Departr	P Harwood Heights Police Departr∥L	Harvey Police Department	Harvard	2248 Hancock County Sheriffs Office	2246 Gurnee Police Department	Grundy County Sheriff	<b>Greene County Sheriffs</b>	Great Lakes	Grayslake Police			Glencoe Department of Public S	Gillespie Police Department	Galesburg-Knox County Emerge IL	<b>⊚alesburg-Knox County Emerge∣IL</b>	Fulton County Sheriff	2229 Franklin Park Police Department	Franklin Park Police Department		Forest View Police	Forest Park Police Department	Flossmoor Police	Evergreen Park Police	Evanston Police-Fire			Elk Grove	Elk Grove Village	Elgin Police Depa		Effingham County Sheriff
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7/11/2000	None	3/30/2003		9/25/1997	1/24/2003	1/24/2003	None	None	3/7/2001	7/27/2000	8/7/2000	7/9/2003	6/8/2000	Nöne	4/7/2000		10/2/2000	6/11/2003		None	None	11/19/2000	9/25/1997	4/6/2001	None	1/28/2003	5/9/1997	1	2/27/2003	Verbal Request	None	None	7/18/2001	11/19/2000	11/9/2000	1/31/2002	11/28/2000	None	None	None	5/26/2000	None	Nolle
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					None	CDMA/TDMA		Macoupin	F	Macoupin County	
		4/30/2003	~		8/17/2000	CDMA/TDMA	1	McDonough	⊃d″L′	Macomb-McDonough County Cdil	
					None	CDMA		Cook	185	Lyons Police Department	231.4
		4/3/2002	Υ		11/19/2000	CDMA	1	Cook		Lynwood-Thornton East Hazel	2313
		11/28/2001	~		6/13/2000	CDMA/TDMA	_	Winnebago		Loves Park Police Department	23112
					None	CDMA/TDMA		Logan		Logan County ETSB	2311
		12/17/2002	~		8/15/2000	CDMA	_	Livingston	É	Liv Com 9-1-1	
	12/7/2003		z		7/7/2003	CDMA		Cook		Lincolnwood Police Department	
7		5/9/2003	~		2/27/2002	CDMA	2	Will		2308 Lincolnway Police Dispatch	
		10/23/2001	~		Verbal Request	CDMA		Will		Lincolnway Police Dispatch	2308
		4/1/2002	~		10/11/2000	CDMA		Lake		Lincolnshire Police Department	
		3/19/2002	Υ		8/14/2001	CDMA		Lake	F	Libertyville Police Department	2306
		,			None	CDMA		McLean		Lexington City Hall	2305
		9/7/2001	Υ		10/13/2000	CDMA/TDMA		Lee		Lee County ETSB	2304
				•	Noñe	CDMA		La Salle	F	LaSalle Police Department	2301
					None	CDMA		La Salle	ET I	LaSalle County Sheriffs Departm IL	2300
		3/12/2003	Υ	,	10/1/2002	CDMA	2	Cook	IL	Lansing Police Department	2299
		3/28/2002	Υ		11/27/2000	CDMA		Cook	Ţ	Lansing Police Department	2299
					None	CDMA		Lake	t	Lake Zurich Police Department	2298
-		11/7/2001	Υ		4/7/2000	CDMA	1	McHenry	nell_	Lake in the Hills Police Departme	2297
·					None	CDMA		Lake		Lake Forest Police Department	2296
		12/18/2001	Υ		Verbal Request	CDMA		Lake	F	Lake County Sheriffs Office	2295
		4/1/2002	Υ		Verbal Request	CDMA	1	Lake	7	Lake Bluff Police Department	2294
		2/8/2002	Υ		11/20/2000	CDMA	1	Cook	F	LaGrange Police Department	2293
		4/16/2003	Υ		5/29/2002	CDMA	1	Cook	ne IL	LaGrange Park Police Departme	2292
		1/8/2002	Υ		5/25/2000	CDMA		Kendall	<u>h</u> ∥	KenCom-Public Safety Dispatch	2289
•		2/20/2002	Υ		5/26/2000	CDMA	1	Kane	IL	Kane County Sheriff	2288
		4/2/2002	<b>Y</b>		7/26/2000	CDMA	1	Kankakee	IL	Kancomm	2287
			,		None	CDMA		Cook	IL.	Justice ETSB	2286
		5/9/2003	Y		2/27/2002	CDMA	. 2	IIIW	I	Joliet Communications	
		10/23/2001	Υ		Verbal Request	CDMA	1	Will	IL .	Joliet Communications	2285
		2/21/2002	Y		8/21/2000	CDMA/TDMA	1	Jo Daviess	iL.	Jo Daviess County Sheriff	2283
					None	CDMA		Jersey		Jersey County Sheriffs Departme	2282
		5/14/2003	Υ		4/15/2003	CDMA/TDMA	1	Morgan	-	Jacksonville Police Department	2279
PSAP does not have necessary equipment			z		4/10/2003	CDMA	ν <sub>.</sub>	Du Page	F	Itasca Police	2277
		9/18/2001	Υ		9/25/1997	CDMA	1	Du Page	F	2277 Itasca Police	2277
					None	CDMA/TDMA		Iroquois	IL.	Iroquois County 9-1-1	2276
		3/27/2002	۲		3/23/2001	CDMA	<b>-</b>	Cook	F	Indian Head Park Police	2275
					None	CDMA		Cook		Illinois State Police-District Chica	2274
					None	CDMA		Sangamon	IL .	Illinois State Police District 9	2271
					None	CDMA/TDMA		Pike	IL.	2270 Illinois State Police District 20	2270
		2/4/2002	~		11/19/2000	CDMA	_	Cook	F	Homewood	2267
		4/15/2002	Υ		7/24/2000	CDMA		Cook	F	Hometown ETSB	2266

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	North Suburban Emergency Con IL	North Riverside Police Departme	North Chicago Police Department	Norridge Police Department	Normal Police Department	NIU Police Department	Niles Police Department	Naperville Police Department	Mundelein Police Department	Mt Sterling Police Department	Mt Prospect Police Department	Mt Olive Police Department	Mt Carroll Police Department	Morton Police Department	Morton Grove Police Departmen	Morton Grove Police Departmen	Morris City Police Department	Morgan County Sheriffs Office	Montgomery Police Department	Moline Police Department	Milan Police Department	Midlothian Police Department	ad	Merrionette Park	Mercer County E9-1-1	Mendota Dispatch	Melrose Park Police Department	McLean County ETSB	McLean County ETSB	McHenry Police Department	McHenry County Sheriff	ook	Maywood Police Department	Matteson Police Department	Marshall County Sheriffs Office	Marseilles Police Department	ham	ň
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	None	None	None	1/2/2001	None	None	Verbal Request	9/25/1997	None	None	None	None	None	Verbal Request	1/9/2001	1/9/2001	None	2/27/2001	Verbal Request	Verbal Request	Verbal Request	11/16/2000	6/24/2003	None	11/16/2000	None	None	7/5/2002	7/5/2002	4/7/2000	4/7/2000	10/6/2000	None	None	None	None	None	None
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